



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/760,202	01/21/2004	Kia Silverbrook	RRA03US	1355
24011 7590 10/12/2007 SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA			EXAMINER HUFFMAN, JULIAN D	
			ART UNIT 2853	PAPER NUMBER
			MAIL DATE 10/12/2007	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

## Office Action Summary

Application No.

10/760,202

Applicant(s)

SILVERBROOK, KIA

Examiner

Julian D. Huffman

Art Unit

2853

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1:704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 31 July 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4,6 and 7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,6 and 7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 4, 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Silverbrook (U.S. 20020154189 A1) in view of Yakura et al. (U.S. 6,938,980 B2).

Silverbrook discloses:

With regards to claim 1, an inkjet printer comprising an inkjet printer cartridge, said cartridge (figs. 3 and 9) having a body (fig. 3, the cartridge has a body, 0025, 0051) comprising:

a printing fluid storage for separately storing a set of-colored inks (0055, fig. 9, the rectangular portions below the printheads represent the fluid storage), and

a full color pagewidth printhead including at least 20,000 printing fluid delivery nozzles in fluid communication with the printing fluid storage (printhead chips together make up a pagewidth printhead, which is mounted on the cartridge of fig. 3, 0044-0045, 0089, 0090);

wherein said cartridge is configured to be receivable in a complementary cradle having a recess for receiving said inkjet printer cartridge, so that when mated together, said cartridge and said cradle together form an inkjet printer (fig. 7).

With regards to claim 2, a printer cartridge according to claim 1, wherein the printhead includes at least 30,000 printing fluid delivery nozzles in fluid communication with the printing fluid storage (0090).

With regards to claim 4, a printer cartridge wherein the printing fluid storage comprises a collapsible membrane, said membrane defining one or more storage reservoirs for separately storing one or more printing fluids for printing (the reference incorporates by reference several applications and patents, including application number 10/113053, U.S. Patent 6,362,868, which recites in claim 10, ink reservoirs with collapsible membranes).

With regards to claim 6, a printer cartridge wherein the printing fluid storage is for further storing an ink fixative for facilitating fixing of ink following delivery by said fluid delivery nozzles (0056).

With regards to claim 7, wherein the printing fluid storage is for further storing an infrared ink (0056).

Silverbrook also discloses the print cartridge mounted in a recess of a cradle of an inkjet printer (fig. 7). The cradle in which the cartridge is mounted includes control circuitry for controlling the print cartridge (0044, PCB's).

Silverbrook does not disclose the claimed printhead maintenance means.

However, Yakura et al. discloses an inkjet printer comprising :

an inkjet printer cartridge (3), said cartridge having a body comprising:

a printing fluid storage for separately storing a set of colored inks (column 14, lines 24-29);

a full color pagewidth printhead including nozzles in fluid communication with the printing fluid storage (1, column 14, lines 33-37), and

printhead maintenance means for maintaining proper printhead functioning (fig. 2, elements 5 and 7); and

a cradle having a recess for receiving said inkjet printer cartridge (fig. 1), said cradle comprising a motor (20) for driving said printhead maintenance means,

wherein said cartridge is configured to be replaceably receivable in said recess so that, when mated together, said motor is mechanically coupled to said printhead maintenance means and said cartridge and said cradle together form said inkjet printer (fig. 1, column 25, lines 41-49).

It would have been obvious to one having ordinary skill in the art at the time of the invention to provide the maintenance means of Yakura et al. in the invention of Silverbrook for the purpose of enabling the ink discharge openings to be effectively cleaned without damaging the ink-discharge surfaces of the print head.

### ***Response to Arguments***

3. Applicant's arguments filed 31 June 2007 have been fully considered but they are not persuasive.

Silverbrook in view of Yakura et al. disclose the claimed invention.

### ***Conclusion***

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian D. Huffman whose telephone number is (571) 272-2147. The examiner can normally be reached on 10:00a.m.-6:30p.m. Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

 10/4/07  
JULIAN D. HUFFMAN  
PRIMARY EXAMINER